



# Cisco

## 300-165 Exam

### Cisco Implementing Cisco Data Center Infrastructure Exam

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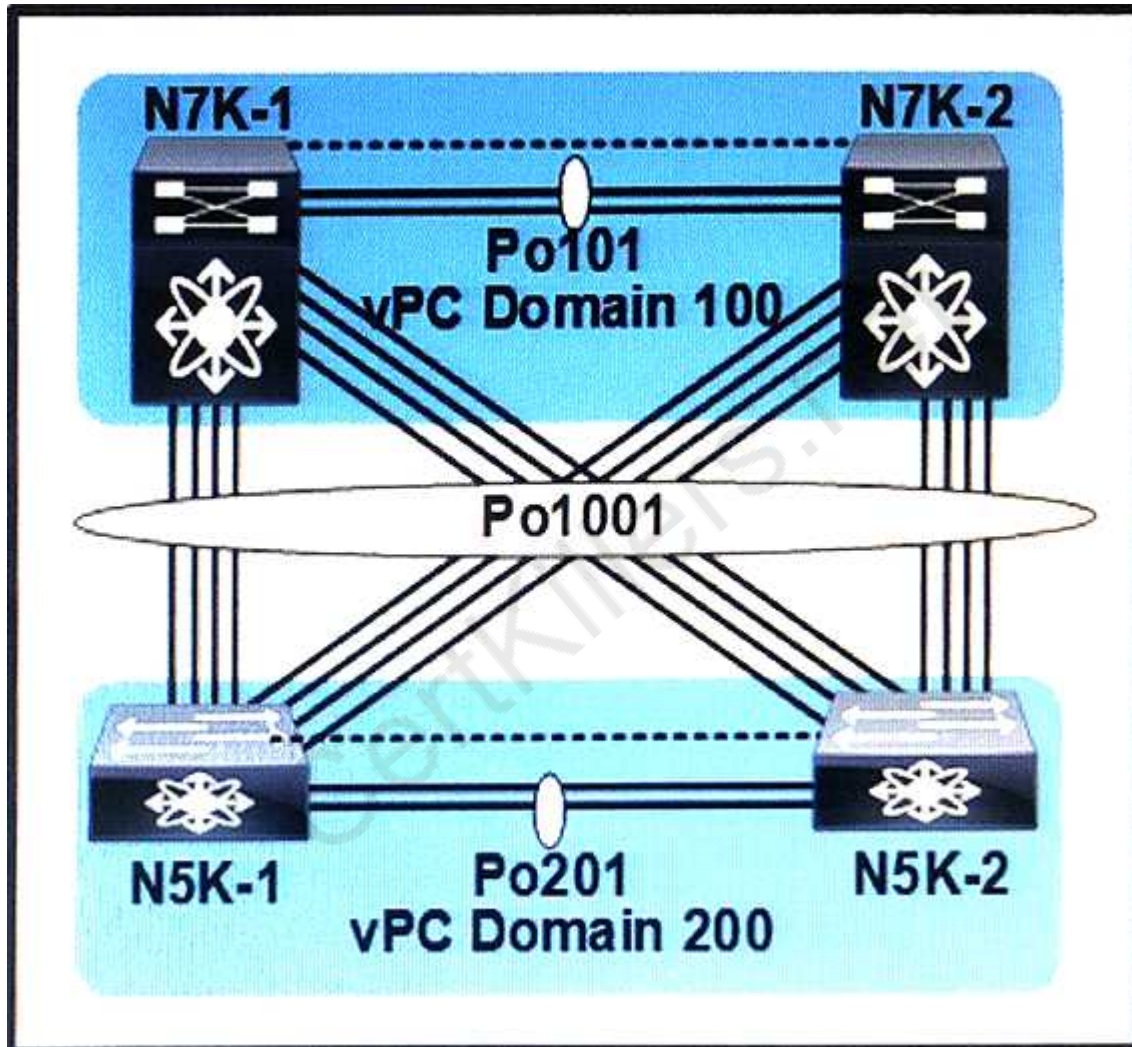
## Version: 22.0

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**Question: 1**

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Refer to the exhibit.



You must ensure that the vPC Domain 100 controls the LACP Po1001 link. Which feature do you configure?

- A. peer switch
- B. role priority
- C. system priority
- D. peer gateway

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**Answer: C**

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**Question: 2**

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Refer to the exhibit.

```
NEXUS1(config)# feature vpc
NEXUS1(config)# vpc domain 500
NEXUS1(config-vpc-domain)# peer-switch
NEXUS1(config-vpc-domain)# peer-keepalive destination 1.1.1.2
NEXUS1(config-vpc-domain)# exit
NEXUS1(config)# interface port-channel10
NEXUS1(config-if)# vpc peer-link
NEXUS1(config-if)# exit
NEXUS1(config)# spanning-tree vlan 1-997,1000-3967 priority 0
NEXUS1(config)# spanning-tree vlan 998-999 priority 4096

NEXUS2(config)# feature vpc
NEXUS2(config)# vpc domain 500
NEXUS2(config-vpc-domain)# peer-switch
NEXUS2(config-vpc-domain)# peer-keepalive destination 1.1.1.1
NEXUS2(config-vpc-domain)# delay restore 150
NEXUS2(config-vpc-domain)# exit
NEXUS2(config)# interface port-channel10
NEXUS2(config-if)# vpc peer-link
NEXUS2(config-if)# exit
NEXUS2(config)# spanning-tree vlan 1-997,1000-3967 priority 0
NEXUS2(config)# spanning-tree vlan 998-999 priority 8192
```

You configure two switches named NEXUS1 and NEXUS2. Which two results of implementing the configuration are true? (Choose two.)

- A. NEXUS1 is the spanning-tree root for VLAN 100.
- B. NEXUS1 is the spanning-tree root for VLAN 998.
- C. NEXUS2 is the spanning-tree root for VLAN 100.
- D. Both switches are the spanning-tree root for VLAN 998.
- E. Both switches are the spanning-tree root for VLAN 100.

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**Answer: B, E**

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**Question: 3**

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DRAG DROP

Drag and drop the configuration management commands on the left to their correct definitions on the right.

atomic	type of rollback that occurs if no errors occur
best-effort	type of rollback that stops if an error occurs
checkpoint	saved state of the running configuration
stop-at-first-failure	type of rollback that skips any errors

---

**Answer:**

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- atomic
- stop-at-first-failure
- checkpoint
- best-effort

---

**Question: 4**

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Which option describes the atomic rollback feature in Cisco NX-OS?

- A. Rollback is implemented only if no errors occur.
- B. Rollback is implemented and any errors are skipped.
- C. Rollback is implemented and stops if an error occurs.
- D. Rollback is implemented instantly and there is no option to cancel the operation if errors are encountered.

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**Answer: A**

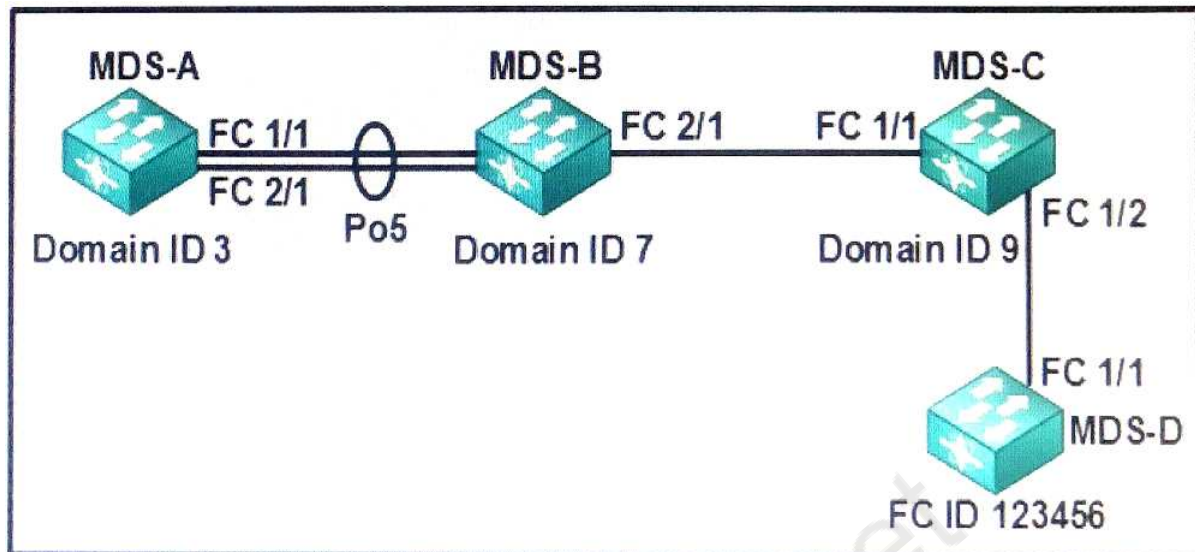
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**Question: 5**


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Refer to the exhibit.



Which command configures a static FSPF route from MDS-A to FC ID 123456?

- A. switch(config)# fcroute 0x123456 interface san-port-channel 5 domain 7 vsan 10
- B. switch(config)# fcroute 0x123456 interface san-port-channel 5 domain 3 vsan 10
- C. switch(config)# fcroute 123456 interface fc 1 2 domain 7
- D. switch(config)# fcroute 123456 interface fc 1 1 domain 9

---

**Answer: A**

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Reference:

[https://www.cisco.com/c/m/en\\_us/techdoc/dc/reference/cli/n5k/commands/fcroute](https://www.cisco.com/c/m/en_us/techdoc/dc/reference/cli/n5k/commands/fcroute)

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**Question: 6**


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Refer to the exhibit.

```
N5k(config)# interface fc1/5
N5k(config-if)# channel-group 5 force
```

What is the result when you run the force command?

- A. Port channel mode uses force mode
- B. The command forces the addition of a port to a SAN port channel.
- C. The port is enabled and active.
- D. The command forces the deletion of a port to a SAN port channel.

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**Answer: B**

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**Question: 7**

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DRAG DROP

Drag and drop the types of PTP clocks on the left to their correct descriptions on the right.

boundary	has a single PTP port in a domain and communicates with the network
end-to-end transparent	has multiple PTP ports in a domain, and each port communicates with the network
ordinary	measures the residence time of a PTP message and accumulates the times in a follow-up message
peer-to-peer transparent	provides the propagation delay of the link and the PTP event transit time information to other clocks

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**Answer:**

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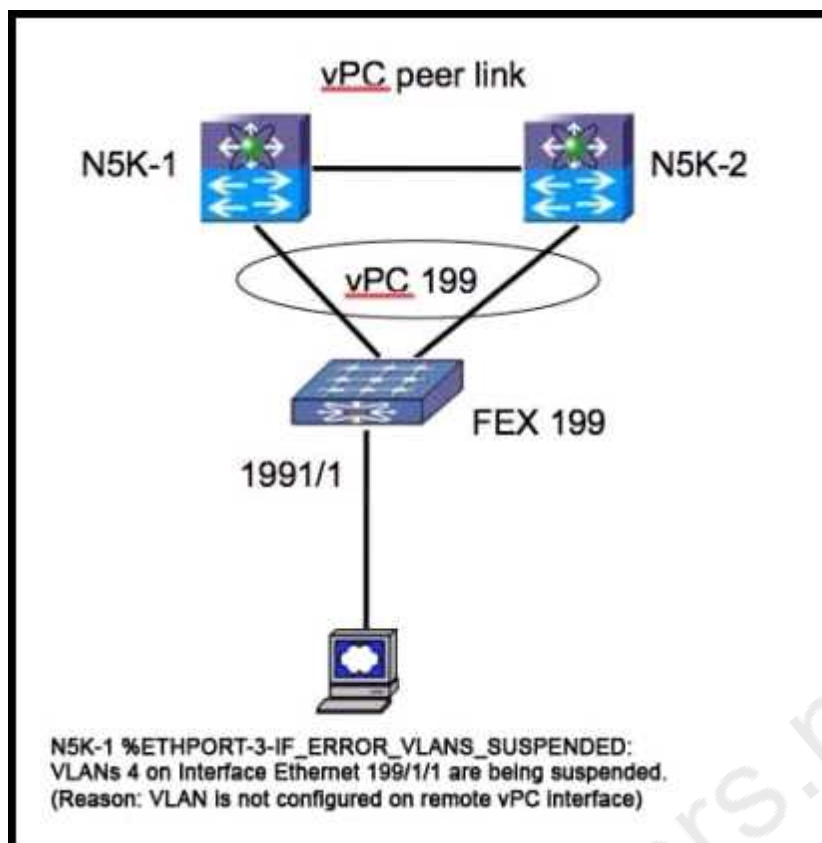
ordinary
boundary
end-to-end transparent
peer-to-peer transparent

---

**Question: 8**

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Refer to the exhibit.



Which corrective action is taken to resolve the problem?

- A. Trunk four VLANs on interface ethernet 199/1/1.
- B. Use the shut and no shut interface ethernet 199/1/1 so that the VLANs come up.
- C. Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.
- D. Prune all but four VLANs from vPC 199.
- E. Add VLAN 4 to vPC 199.

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**Answer: C**

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Explanation:

Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.

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### Question: 9

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Instructions



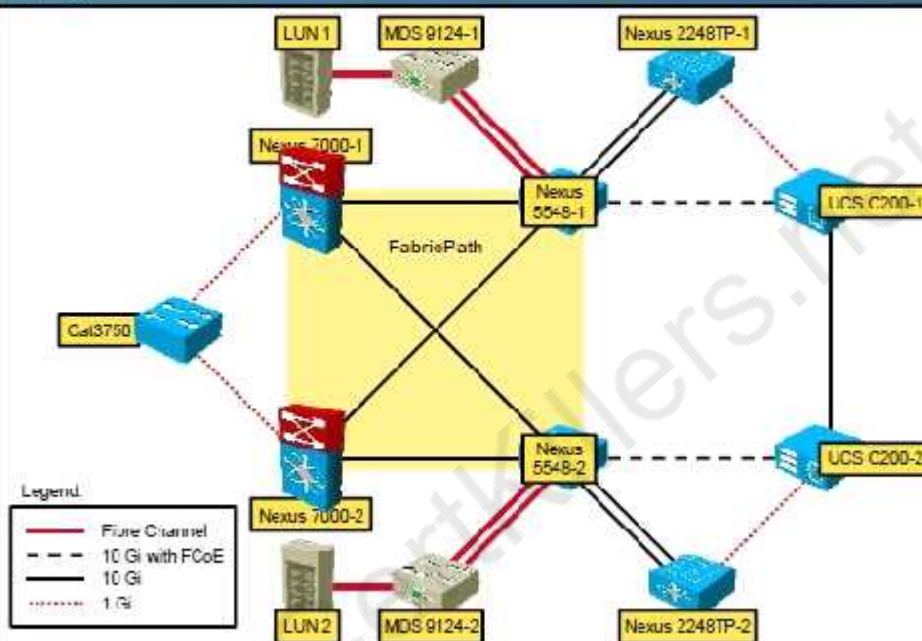
## Instructions

- Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice questions, click the numbered boxes at the left of the top panel.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

## Scenario

Customer is deploying Cisco FabricPath in their new data center as shown in the topology diagram. Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.

## Topology





## Exhibit 1

```
Nexus7000-1#show feature-set
Feature Set Name      ID      State
-----
fabricpath            2      enabled
fex                    3      disabled

Nexus7000-1#
```

## Exhibit 2

```
Nexus7000-1# show feature-set services fabricpath
u2rib
drap
isis_12mp
3 services 1r feature set fabricpath
Nexus7000-1#
```

## Exhibit 3

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath switch-id 25
Nexus7000-1#(config)#
```

## Exhibit 4

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath timer allocate-delay 600
Nexus7000-1#(config)#
```

## Exhibit 5

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath load-balance unicast layer3
Nexus7000-1#(config)#

Nexus7000#(config)# sh fabricpath load-balance
ECMP load-balancing configuration:
L3/L4 Preference: Mixed
Rotate amount: 14 bytes
Use VLAN: TRUE
Ftag load-balancing configuration:
Rotate amount: 3 bytes
Use VLAN: TRUE
```

Customer has configured fabricpath allocate-delay to 600. What is the effect of this?

- A. The allocate-delay is the time for FP to go into forwarding state
- B. It specifies the time delay for a transitioned value to be propagated throughout the network
- C. It specifies the time delay for a link bringup to detect conflicts
- D. The allocate-delay is the time delay for a new resource to be propagated throughout the network

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**Answer: D**

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Explanation:

Specifies the time delay for a new resource to be propagated throughout the network.

Reference:

[http://www.cisco.com/web/techdoc/dc/reference/cli/nxos/commands/fpath/fabricpath\\_timers.htm](http://www.cisco.com/web/techdoc/dc/reference/cli/nxos/commands/fpath/fabricpath_timers.html)  
!

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**Question: 10**

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Which topology is not supported when using vPC?

- A. a single-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches
- B. a dual-homed server to two FEXs, each connected to two Cisco Nexus 5500 Series Switches
- C. a dual-homed server to two FEXs that are connected to one Cisco Nexus 5500 Series Switch
- D. a dual-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches

---

**Answer: C**

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Explanation:

The figure shows unsupported topology where a vPC is between hosts and two FEXs that are connected to one Cisco Nexus 5500 Series device. This topology does not provide a good high availability solution because the server loses the connectivity to the network when the Cisco Nexus 5000 Series device fails.

Figure: Unsupported Topology—Host vPC With One Cisco Nexus 5000 Series Device



If you need to connect a multi-homing server to a pair of FEXs when there is only one Cisco Nexus 5000 Series device, you have the option to run active or standby NIC teaming from the server.

Reference:

[http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt\\_ops\\_guides/513\\_n1\\_1/n5k\\_enhanced\\_vpc](http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt_ops_guides/513_n1_1/n5k_enhanced_vpc)

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